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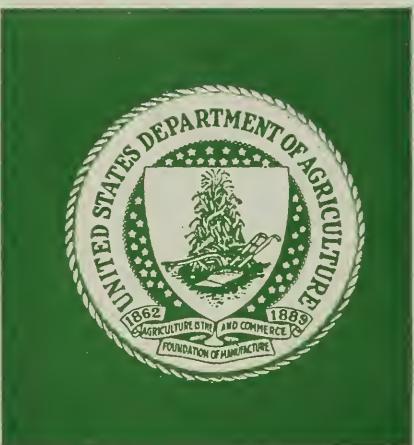
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SELECTED REFERENCES ON CROSS-BILLS
ESPECIALLY IN RELATION TO TREE DAMAGE

Compiled by Philip B. Perkins

1. Campbell, Bruce. Crossbills. rev. ed. London, 1962. 15 p., illus., 28 refs. (Gt. Britain. Forestry Commission. Leaflet 36). Forestry abstracts 24 abstr. 4594.
2. Dawson, W. R., and others. Utilization of sodium chloride by the red crossbill. American zoologist 2 (3): 402-403, 1962. Study of metabolism.
3. Koakimies, J. Linnut ja niisäkkäät metsien vahinko- ja hyötyeläimiin. [The role of birds and mammals in the life of the forests.] Metsätaloudellinen Aikakauslehti 1(1):14-19, 1961. 15 refs. In Finnish. English summary. Discusses the loss of spruce seed caused by crossbills, squirrels....in s. Finland, ... Forestry abstracts 22 abstr. 4759.
4. Krysztofik, E. Wpływ żeru kryzodzieba świerkowego na urodzaj szyszek i pozywanie nasion modrzewia. [The effect of crossbill feeding on the cone harvest and seed yield of larch.] Las Polski 34 (18): 4-6, 1960. in Polish. Gives data on cone and seed damage by Loxia curvirostra in various parts of Poland. Forestry abstracts 22 abstr. 2074.
5. Switzerland. "Large flocks of crossbills have done great damage to the Spruce cone crop of the Jura, and in many places have practically destroyed the expected heavy seed crop" (from Forêt (Neuchatel), Jan. 1957) in Forestry the world over. Forestry abstracts 18(2): 294, April 1957.
6. Todoroff, Harrison B. Social organization and behavior in a flock of captive non-breeding red crossbills. Condor 56(6): 346-358, Nov.-Dec. 1954. Wildlife review 79 abstr. 6219.

feel it's too

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Combining a difficult combination

25. *Leucostoma* *leucostoma* (L.) Pers. *Leucostoma* *leucostoma* (L.) Pers. *Leucostoma* *leucostoma* (L.) Pers.

and the following table is given to show the results of the experiments.

1979-1980: 25 percent

7. Traian, I. Vătămarea conurilor de răsinoase în arboretele din Valea Sebeșului. [Damage to cones of conifer stands in the Sebeș Valley.] Revista Pădurilor 71(3):170-171, 1956. 1 ref. in Rumanian. A total of 700 hectolitres of cones were collected from trees 70-100 years old, and a sample of 300 hl. analysed for damage.... Other cones (1-2%) showed partial damage by woodpeckers, crossbills and squirrels. The total % of sound cones was 24-40. Forestry abstracts 18 abstr. 1837.

8. Vlcek, J. The crossbill - a nuisance in forest seed work. Les [Bratislava] 19(1): 10-11, Jan. 1963. Bibliography of agriculture 28 entry 2860.

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The Academy of Natural Sciences, Philadelphia.

Northeastern Forest Experiment Station, Centralized Title Service, entries 1962 to date.

Agricultural Index Sep. 1960 - April 1964.

B.A.S.I.C. (Biological abstracts) April 1962-Dec. 1963.

Bibliography of agriculture 27-28(3), Jan. 1963-March 1964.

Dictionary catalogue of the Yale Forestry Library. Boston, Hall, 1962.

Forestry abstracts 1-25(2), 1939-April 1964.

Journal of wildlife management 1-22, 1937-1961.

Wildlife abstracts 1935-1951; 1952-1955.

Wildlife review nos. 67-111, Mar. 1956-Sep. 1963.

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and the groups of students we will have necessarily a number
of students willing to take our exam. I think that about
one in three of the students will take the exam. I would say
that probably about one in eight to ten percent of the class will take
the exam. I think it's a reasonable estimate that about seven
out of every eight students will take the exam. I would say
that probably about one in eight to ten percent of the class will

These have proved so satisfactory in all respects that it would be imprudent to delay publication of their conclusions, and the author wishes to make them available as soon as possible.

It is also important to remember that the number of individuals in each age group will vary from year to year.

